**Our File No. NWN02-002-DIV-US**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Chad Mirkin et al.

Serial No. 10/671,381

Filing Date: September 25, 2003

For METHOD FOR SCANNING PROBE CONTACT PRINTING

Examiner William P. Fletcher, III

Group Art Unit No. 1762

Confirmation No. 9434

**INFORMATION DISCLOSURE STATEMENT**

M.S. – Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

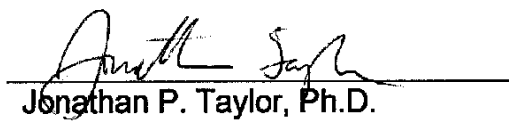
Dear Sir:

In accordance with the provisions of 37 C.F.R. § 1.56, Applicants request that citation and examination of the references identified on the attached Form PTO-1449, required copies of which are enclosed herewith in accordance with 37 C.F.R. §1.98, be made during the course of examination of the above-referenced application for United States Letters Patent.

Since this Information Disclosure Statement is being submitted after the mailing of the first Office Action, payment of the fee set forth in 37 C.F.R. §1.17(p) accompanies this submission.

**- Payment by credit card. Form PTO-2038 is attached.**

Respectfully submitted,



Jonathan P. Taylor, Ph.D.
Registration No. 48,338

Evan Law Group, LLC
600 West Jackson
Suite 625
Chicago, IL 60661
(312) 876-1400

| Form PTO-1449<br>(Rev. 8-88) | Attorney Docket No.<br>NWN02-002-DIV-US | Serial No.<br>10/671,381 |
|---|---|---|
| **INFORMATION DISCLOSURE CITATION**<br>(Use several sheets if necessary) | First Named Inventor:<br>Chad Mirkin | |
| | Filing Date:<br>September 25, 2003 | Group:<br>1762 |

| U.S. PATENT DOCUMENTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| Examiner Initials* | | Document Number | Date | Name | Class | Subclass | Filing Date If Appropriate |
| | Z1 | 5,053,100 | 10/1991 | Hayes et al. | | | |
| | Z2 | 5,514,501 | 05/1996 | Tarlov | | | |
| | Z4 | 5,883,387 | 03/1999 | Matsuyama et al. | | | |
| | Z5 | 5,922,214 | 07/1999 | Liu et al. | | | |
| | Z7 | 6,156,215 | 12/2000 | Shimada et al. | | | |
| | Z8 | 6,284,113 | 09/2001 | Bjornson et al. | | | |
| | Z10 | 6,353,219 | 03/2002 | Kley | | | |
| | Z11 | 6,409,900 | 06/2002 | Parce et al. | | | |
| | Z12 | 6,429,025 | 08/2002 | Parce et al. | | | |
| | Z13 | 6,444,111 | 09/2002 | Montgomery | | | |
| | Z14 | 6,555,389 | 04/2003 | Ullman et al. | | | |
| | Z15 | 6,635,311 | 10/2003 | Mirkin et al. | | | |
| | Z16 | 6,642,129 | 11/2003 | Liu et al. | | | |
| | Z17 | 6,827,979 | 12/2004 | Mirkin et al. | | | |
| | Z18 | 6,867,443 | 03/2005 | Liu et al. | | | |
| | Z19 | 6,943,417 | 09/2005 | Boland et al. | | | |
| | Z20 | 7,034,854 | 04/2006 | Cruchon-Dupeyrat et al. | | | |
| | Z21 | 7,042,828 | 05/2006 | Kley | | | |
| | Z22 | 2001/0020588 | 09/2001 | Adourian et al. | | | |
| | Z23 | 2001/0036674 | 11/2001 | Indermuhle et al. | | | |
| | Z24 | 2002/0025279 | 02/2002 | Weigl et al. | | | |
| | Z25 | 2002/0123153 | 09/2002 | Moon et al. | | | |
| | Z26 | 2003/0017077 | 01/2003 | Hahn et al. | | | |
| | Z27 | 2003/0026740 | 02/2003 | Staats | | | |
| | Z29 | 2003/0082080 | 05/2003 | Zimmermann et al. | | | |
| | Z31 | 2004/0018116 | 01/2004 | Desmond et al. | | | |
| | Z32 | 2004/0175631 | 09/2004 | Crocker et al. | | | |
| | Z33 | 7,081,624 | 07/2006 | Liu et al. | | | |
| | Z34 | 2005/0201257 | 09/2005 | Champion et al. | | | |

| Examiner | Date Considered |
|---|---|
| | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| Form PTO-1449 (Rev. 8-88) | Attorney Docket No. NWN02-002-DIV-US | Serial No. 10/671,381 |
|---|---|---|
| **INFORMATION DISCLOSURE CITATION** (Use several sheets if necessary) | First Named Inventor: Chad Mirkin | |
| | Filing Date: September 25, 2003 | Group: 1762 |

| U.S. PATENT DOCUMENTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| Examiner Initials* | | Document Number | Date | Name | Class | Subclass | Filing Date If Appropriate |
| | Z35 | 2005/0236566 | 10/2005 | Liu | | | |
| | Z36 | 2004/0223886 | 11/2004 | Liu et al. | | | |
| | Z38 | 2004/0228962 | 11/2004 | Liu et al. | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Examiner Initials* | | Document Number | Date | Country | Class | Subclass | Translation | |
| | | | | | | | Yes | No |
| | Y1 | WO 00/41213 | 07/2000 | WO | | | | |
| | Y2 | WO 01/91855 A1 | 12/2001 | WO | | | | |
| | Y3 | EP 1388369 A2 | 02/2004 | EP | | | | |
| | Y4 | EP 0786642 A1 | 07/1997 | EP | | | | |
| | Y6 | WO 2004/105046 A2 | 12/2004 | WO | | | | |

| Examiner Initials* | | OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages |
|---|---|---|
| | X1 | Kim et al., "A novel AFM Chip for fountain pen nanolithography – design and microfabrication," Mat. Res. Soc. Symp. Proc., Vol. 782, pp. A5.56.1-A5.56.6, 2004. |
| | X2 | Xu et al., "Microfabricated quill-type surface patterning tools for the creation of biological micro/nano arrays," Biomedical Microdevices 6:2, pp. 117-123, 2004. |
| | X3 | Deladi et al., "Micromachined fountain pen for atomic force microscope-based nanopatterning," Applied Physics Letters, Vol. 85, No. 22, pp. 5361-5363, 2004. |
| | X4 | Lewis et al., "Fountain pen nanochemistry: atomic force control of chrome etching," Applied Physics Letters, Vol. 75, No. 17, pp. 2689-2691, 1999. |
| | X5 | Baldock et al., "Microfabricated Devices for Chemical and Biochemical Analysis Systems," located at http://www.in.umist.ac.uk/, presented at Microsystems 2010, Daresbury, Cheshire, 1 page, 2000. |
| | X13 | Bullen et al., "Design, Fabrication, and Characterization of Thermally Actuated Probe Arrays for Dip Pen Nanolithography," J. Microelectromechanical Systems, vol. 13, no. 4, pp. 594-602, August 2004. |
| | X15 | Higa et al., "Fabrication of Microcantilever with a Silicon Tip Prepared by Anodization", Japanese Journal of Applied Physics, Vol. 37, Part 1, No. 12B, pp.7078-7080, 1998. |

| Examiner | Date Considered |
|---|---|
| | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| Form PTO-1449<br>(Rev. 8-88) | Attorney Docket No.<br>NWN02-002-DIV-US | Serial No.<br>10/671,381 |
|---|---|---|
| **INFORMATION DISCLOSURE CITATION**<br>(Use several sheets if necessary) | First Named Inventor:<br>Chad Mirkin | |
| | Filing Date:<br>September 25, 2003 | Group:<br>1762 |

| Examiner Initials* | | OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS<br>Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages |
|---|---|---|
| | X16 | Hong et al., "A nanoplotter with both parallel and serial writing capabilities," Science, Vol. 288, pp. 1808-1811, 2000. |
| | X17 | International Search Report and Written Opinion for PCT Application No. PCT/US04/13974, 9 pages, dated November 30, 2005. |
| | X18 | International Search Report for PCT Application No. PCT/US2004/015161,7 pages, dated February 10, 2005. |
| | X21 | Wang et al., "Multifunctional probe array for nano patterning and imaging," Nano Letters, vol. 5, no. 10, pp 1867-1872, 2005. |
| | X33 | International Search Report and Written Opinion for PCT Application No. PCT/US20006/035826, 13 pages, dated December 19, 2006. |
| | X38 | Van Zant, "Microchip Fabrication: A Practical Guide to Semiconductor Processing," Chapter 16 Semiconductor Devices and Integrated Circuit Formation, pp, 491-529, 2000. |
| | X43 | Wang et al., "Scanning probe lithography tips with spring-on tip designs: Analysis, fabrication, and testing", Applied Physics Letters, 87, 054102-1 to 054102-3, 2005. |
| | X47 | Zou et al., "A mould-and-transfer technology for fabricating scanning probe microscopy probes," Journal of Micromechanics and Microengineering, Vol. 14, pp. 204-211, 2004. |
| | X48 | Wang et al., "Thermally actuated probe array for parallel dip-pen nanolithography," J. Vac. Sci. Technol. B., 22(6) , pp. 2563-2567, 2004 |
| | X49 | Zhang et al., "Passive and Active Probe Arrays for Dip-Pen Nanolithography," First IEEE Conference on Nanotechnology, Maui, HI, 5 pages, 2001. |
| | X50 | Hong et al., "Multiple Ink Nanolithography: Toward a Multiple-Pen Nano-Plotter", Science, Vol. 286, pp. 523-525, 1999. |

| Examiner | Date Considered |
|---|---|
| | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.